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TRANSMITTAL FORM (To be used for all correspondence after initial filing)	Application Number	10/068,564
	Filing Date	February 5, 2002
	First Named Inventor	Emad S. Alnemri
	Group Art Unit	1642
	Examiner Name	
	Attorney Docket No.	480140.434C2

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ENCLOSURES (check all that apply)		
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
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Date	October 8, 2002	

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Applicants : Emad S. Alnemri and Teresa Fernandes-Alnemri
Application No. : 10/068,564
Filed : February 5, 2002
For : CASPASE-14, AN APOPTOTIC PROTEASE, NUCLEIC ACIDS
ENCODING AND METHODS OF USE

Art Unit : 1642
Docket No. : 480140.434C2
Date : October 8, 2002

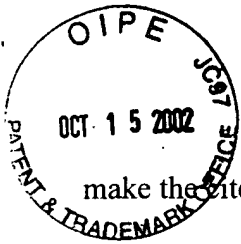
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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the 75 references set forth on the attached form PTO-1449. This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior Application No. 09/989,903, filed November 20, 2001; which application is a divisional of U.S. Application Serial No. 09/187,789, filed November 6, 1998, which application issued as U.S. Patent No. 6,340,740 on January 22, 2002; which application is a continuation-in-part of U. S. Serial No. 09/139,600, filed August 25, 1998, now pending, which application claims the benefit of priority from U. S. Provisional Application Serial No. 60/056,986, now abandoned. The references listed on the attached Form PTO-1449 were submitted to and/or cited by the Patent and Trademark Office in this prior application and, therefore, are not required to be provided in this application. If the Examiner wishes, copies will be provided upon request.

As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.



Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,
Emad S. Alnemri and Teresa Fernandes-Alnemri
Seed Intellectual Property Law Group PLLC

William T. Christiansen, Ph.D.
Registration No. 44,614

WTC:ljd

Enclosures:

Postcard
Form PTO/SB/21
Forms PTO-1449 (6 Sheets)

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FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
480140.434C2APPLICATION NO.
10/068,564

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT

Emad S. Alnemri and Teresa Fernandes-Alnemri

FILING DATE

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GROUP ART UNIT

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AA	WO 95/24427	09/14/95	WIPO		
	AB	WO 96/13603	05/09/96	WIPO		
	AC	WO 96/25945	08/29/96	WIPO		
	AD	WO 99/10504	03/04/99	WIPO		
	AE	WO 99/23106	05/14/99	WIPO		
	AF	WO 00/04169	01/27/00	WIPO		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AG	Ahmad et al., "Identification and Characterization of Murine Caspase-14, a New Member of the Caspase Family," <i>Cancer Research</i> 58: 5201-5205, 1998.
	AH	Alnemri et al., "Human ICE/CED-3 Protease Nomenclature," <i>Cell</i> 87: 171, 1996.
	AI	Barinaga, "Cell Suicide: By ICE, Not Fire," <i>Science</i> 263: 754-756, 1994.
	AJ	Black et al., "Activation of Interleukin-1 β by a co-induced protease," <i>FEBS Letters</i> 247(2): 386-390, 1989.
	AK	Boldin et al., "A Novel Protein That Interacts with the Death Domain of Fas/APO1 Contains a Sequence Motif Related to the Death Domain," <i>J. Biol. Chem.</i> 270(14): 7795-7798, 1995.
	AL	Boldin et al., "Involvement of MACH, a Novel MORT1/FADD-Interacting Protease, in Fas/APO-1- and TNF Receptor-Induced Cell Death," <i>Cell</i> 85: 803-815, 1996.
	AM	Bowie et al., "Deciphering the Message in Protein Sequences: Tolerance of Amino Acid Substitutions," <i>Science</i> 247: 1306-1310, March 1990.
	AN	Burgess et al., "Possible Dissociation of the Heparin-binding and Mitogenic Activities of Heparin-binding (Acidic Fibroblast) Growth Factor-1 from Its Receptor-binding Activities by Site-directed Mutagenesis of a Single Lysine Residue," <i>J. of Cell. Bio.</i> 111: 21, May 1990.
	AO	Cerretti et al., "Molecular Cloning of the Interleukin-1 β Converting Enzyme," <i>Science</i> 256: 97-100, 1992.

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* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-449 (REV. 7-80)		OCT 15 2002		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 480140.434C2		APPLICATION NO. 10/068,564	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)						APPLICANT Emad S. Alnemri and Teresa Fernandes-Alnemri			
						FILING DATE February 5, 2002		GROUP ART UNIT 1642	
U.S. PATENT DOCUMENTS									
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME		CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY				TRANSLATION YES NO	
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
	BA	Chinnaiyan et al., "FADD, a Novel Death Domain-Containing Protein Interacts with the Death Domain of Fas and Initiates Apoptosis," <i>Cell</i> 81: 505-512, 1995.							
	BB	Cohen, "Caspases: the executioners of apoptosis," <i>Biochem. J.</i> 326: 1-16, 1997.							
	BC	Duan et al., "ICE-LAP3, a Novel Mammalian Homologue of the <i>Caenorhabditis elegans</i> Cell Death Protein Ced-3 Is Activated during Fas- and Tumor Necrosis Factor-induced Apoptosis," <i>J. Biol. Chem.</i> 271(3): 1621-1625, 1996.							
	BD	Duan et al., "ICE-LAP6, a novel member of the ICE/Ced-3 Gene Family, Is Activated By the Cytotoxic T Cell Protease Granzyme," <i>J. Biol. Chem.</i> 271: 16720-16724, 1996.							
	BE	Enari et al., "Involvement of an ICE-like protease in Fas-mediated apoptosis," <i>Nature</i> 375: 78-81, 1995.							
	BF	Faucheu et al., "Identification of a cysteine protease closely related to interleukin-1 β -converting enzyme," <i>Eur. J. Biochem.</i> 236: 207-213, 1996.							
	BG	Fernandes-Alnemri et al., "CPP32, a Novel Human Apoptotic Protein with Homology to <i>Caenorhabditis elegans</i> Cell Death Protein Ced-3 and Mammalian Interleukin-1 β -converting Enzyme," <i>J. Biol. Chem.</i> 269(49): 30761-30764, 1994.							
	BH	Fernandes-Alnemri et al., "In Vitro Activation of CPP32 and Mch3 by Mch4, a novel human apoptotic cysteine protease containing two FADD-like domains," <i>Proc. Natl. Acad. Sci. USA</i> 93: 7464-7469, 1996.							
	BI	Fernandes-Alnemri et al., "Mch3, A Novel Human Apoptotic Cysteine Protease Highly Related to CPP32," <i>Cancer Research</i> 55(24): 6045-6052, 1995.							
	BJ	Gagliardini et al., "Prevention of Vertebrate Neuronal Death by the <i>crmA</i> Gene," <i>Science</i> 263: 826-828, 1994.							
	BK	Hillier et al., "The WashU-Merck EST Project," <i>EMBL/Genbank Databases</i> , Accession No. T96912, Sequence Reference HS91272, 1995; http://www.ncbi.nlm.nih.gov/htbin-post/Entrez/query?uid=735536&form=6&db=n&Dopt=g . [Accessed 21 Jan 99].							
	BL	Hillier et al., "The WashU-Merck EST Project," <i>EMBL/Genbank Databases</i> , Accession No. N42544, Sequence Reference HS544281, 1996; http://www.ncbi.nlm.nih.gov/htbin-post/Entrez/query?uid=1166974&form=6&db=n&Dopt=g . [Accessed 21 Jan 99].							
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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
480140.434C2APPLICATION NO.
10/068,564

INFORMATION DISCLOSURE STATEMENT

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APPLICANT

Emad S. Alnemri and Teresa Fernandes-Alnemri

FILING DATE

February 5, 2002

GROUP ART UNIT

1642

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
			YES NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CA	Howard et al., "IL-1-Converting Enzyme Requires Aspartic Acid Residues for Processing of the IL-1 β Precursor at Two Distinct Sites and Does Not Cleave 31-kDa IL-1 α ," <i>J. Immunol.</i> 147(9): 2964-2969, 1991.
CB	Hsu et al., "TRADD-TRAF2 and TRADD-FADD Interactions Define Two Distinct TNF Receptor 1 Signal Transduction Pathways," <i>Cell</i> 84: 299-308, 1996.
CC	Hu et al., "Caspase-14 Is a Novel Developmentally Regulated Protease," <i>The Journal of Biological Chemistry</i> 273(45): 29648-29653, 1998.
CD	Humke et al., "ERICE, A Novel FLICE-activatable Caspase," <i>J. Biol. Chem.</i> 273(25): 15702-15707, 1998.
CE	Juan et al., "Identification and Mapping of <i>Casp7</i> , a Cysteine Protease Resembling CPP32 β , Interleukin-1 β Converting Enzyme, and CED-3," <i>Genomics</i> 40: 86-93, 1997.
CF	Kischkel et al., "Cytotoxicity-dependent APO-1 (Fas/CD95)-associated proteins form a death-inducing signaling complex (DISC) with the receptor," <i>The EMBO Journal</i> 14(22): 5579-5588, 1995.
CG	Korsmeyer, "Regulators of cell death," <i>TIG</i> 11(3): 101-105, 1995.
CH	Kostura et al., "Identification of a monocyte specific pre-interleukin 1 β convertase activity," <i>Proc. Natl. Acad. Sci. USA</i> 86: 5227-5231, 1989.
CI	Kumar et al., "Induction of apoptosis by the mouse <i>Nedd2</i> gene, which encodes a protein similar to the product of the <i>Caenorhabditis elegans</i> cell death gene <i>ced-3</i> and the mammalian IL-1 β -converting enzyme," <i>Genes Dev.</i> 8: 1613-1626, 1994.
CJ	Lazar et al., "Transforming Growth Factor alpha: Mutation of Aspartic Acid 47 and Leucine 48 Results in Different Biological Activities," <i>Molecular and Cellular Biology</i> 8: 1247-1252, March 1988.
CK	Lippke et al., "Identification and Characterization of CPP32/Mch2 Homolog 1, a Novel Cysteine Protease Similar to CPP32," <i>J. Biol. Chem.</i> 271(4): 1825-1828, 1996.

EXAMINER

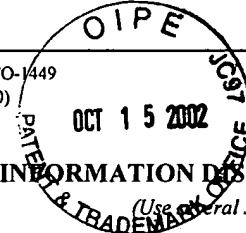
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 <p>INFORMATION DISCLOSURE STATEMENT (Use additional sheets if necessary)</p>				APPLICANT Emad S. Alnemri and Teresa Fernandes-Alnemri			
				FILING DATE February 5, 2002		GROUP ART UNIT 1642	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	DA	Los et al., "Requirements of an ICE/CED-3 protease for Fas/APO-1-mediated apoptosis," <i>Nature</i> 375: 81-83, 1995.					
	DB	Mann and Wilm, "Electrospray mass spectrometry for protein characterization," <i>TIBS</i> 20: 219-224, 1995.					
	DC	Marra et al., "The Washu-HHMI Mouse EST Project," <i>EMBL/Genbank Databases</i> Accession No. AA103647, Sequence Reference Mmaa3647, 1996.					
	DD	Marra et al., "The WashuU-HHMI Mouse EST Project," <i>EMBL/Genbank Databases</i> Accession No. AA167930, Sequence Reference Mmaa67930, 1996.					
	DE	Marra et al., "The WashuU-HHMI Mouse EST Project," <i>EMBL/Genbank Databases</i> Accession No. AA726845, Sequence Reference Aa726845, 1998.					
	DF	Miura et al., "Induction of Apoptosis in Fibroblasts by IL-1 β -Converting Enzyme, a Mammalian Homolog of the <i>C. elegans</i> Cell Death Gene <i>ced-3</i> ," <i>Cell</i> 75: 653-660, 1993.					
	DG	Muller, C.P., Accession No. AAW57087, Genbank, Bethesda, MD, 1998.					
	DH	Muzio et al., "FLICE, A Novel FADD-Homologous ICE/CED-3-like Protease, Is Recruited to the CD95 (Fas/APO-1) Death-Inducing Signaling Complex," <i>Cell</i> 85: 817-827, 1996.					
	DI	Nagata and Golstein, "The Fas Death Factor," <i>Science</i> 267: 1449-1456, 1995.					
	DJ	Nagata, "Apoptosis by Death Factor," <i>Cell</i> 88: 355-365, 1997.					
	DK	Ni et al., (Accession No. W47089) GENESEQ Database, Result 1					
	DL	Nicholson et al., "Identification and inhibition of the ICE/CED-3 protease necessary for mammalian apoptosis," <i>Nature</i> 376: 37-43, 1995.					
	DM	Piérard et al., "Mutant and Chimeric Recombinant Plasminogen Activators," <i>The Journal Of Biological Chemistry</i> 262(24): 11771-11778, 1987.					
	DN	Ray et al., "Viral Inhibition of Inflammation: Cowpox Virus Encodes an Inhibitor of the Interleukin-1 β Converting Enzyme," <i>Cell</i> 69: 597-604, 1992.					
EXAMINER				DATE CONSIDERED			
<p>* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).</p>							

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FORM PTO-109 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 480140.434C2		APPLICATION NO. 10/068,564	
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				APPLICANT Emad S. Alnemri and Teresa Fernandes-Alnemri			
				FILING DATE February 5, 2002		GROUP ART UNIT 1642	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY			TRANSLATION YES NO	
OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	EA	Reed, "Mini-Review: Cellular Mechanisms of Disease Series: Bcl-2 and the Regulation of Programmed Cell Death," <i>J. Cell Biol.</i> 124(1 & 2): 1-6, 1994.					
	EB	Sakamaki et al., "Molecular cloning and characterization of mouse caspase-8," <i>Eur. J. Biochem.</i> 253(2): 399-405, 1998.					
	EC	Salvesen and Dixit, "Caspases: Intracellular Signaling by Proteolysis," <i>Cell</i> 91: 443-446, 1997.					
	ED	Scaffidi et al., "Flice Is Predominantly Expressed as Two Functionally Active Isoforms, Caspase-8/a and Caspase-8/b," <i>The Journal of Biological Chemistry</i> 272(43): 26953-26958, 1997.					
	EE	Scott et al., "The Pendred syndrome gene encodes a chloride-iodide transport protein," <i>nature Genetics</i> 21: 440-443, 1999.					
	EF	Sleath et al., "Substrate Specificity of the Protease That Processes Human Interleukin-1 β ," <i>J. Biol. Chem.</i> 265(24): 14526-14528, 1990.					
	EG	Srinivasula et al., "Autoactivation of Procaspace-9 by Apaf-1-Mediated Oligomerization," <i>Mol. Cell.</i> 1: 949-957, 1998.					
	EH	Srinivasula et al., "Generation of Constitutively Active Recombinant Caspases-3 and -6 by Rearrangement of Their Subunits," <i>J. Biol. Chem.</i> 273(17): 10107-10111, 1998.					
	EI	Srinivasula et al., "The Ced-3/Interleukin 1 β Converting Enzyme-like Homolog Mch6 and the Lamin-cleaving Enzyme Mch2 α Are Substrates for the Apoptotic Mediator CPP32," <i>J. Biol. Chem.</i> 271(43): 27099-27106, 1996.					
	EJ	Steller, "Mechanisms and Genes of Cellular Suicide," <i>Science</i> 267: 1445-1449, 1995.					
	EK	Tao et al., "Studies of Aglycosylated Chimeric Mouse-Human IgG," <i>The Journal of Immunology</i> 143: 2595-2601, October 1989.					
	EL	Tewari et al., "Yama/CPP32 β , a Mammalian Homolog of CED-3, Is a CrmA-Inhibitable Protease That Cleaves the Death Substrate Poly(ADP-Ribose) Polymerase," <i>Cell</i> 81: 801-809, 1995.					
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FORM PTO-1
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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
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FOREIGN PATENT DOCUMENTS

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FA	Thompson, "Apoptosis in the Pathogenesis and Treatment of Disease," <i>Science</i> 267: 1456-1462, 1995.
FB	Thornberry et al., "A novel heterodimeric cysteine protease is required for interleukin-1 β processing in monocytes," <i>Nature</i> 356: 768-774, 1992.
FC	Van de Craen et al., "Cloning Of Murine Ice Homologues," <i>European Cytokine Network</i> 7(2): p. 220, Abstract No. 102, at 6 th International Tumor Necrosis Factor Congress Rhodes, Greece, May 8-12, 1996.
FD	Van de Craen et al., "Characterization of seven murine caspase family members," <i>FEBS Letters</i> 403: 61-69, 1997.
FE	Van de Craen et al., "Identification of a New Caspase Homologue: Caspase-14," <i>Cell Death and Differentiation</i> 5: 838-846, 1998.
FF	Walker et al., "Crystal Structure of the Cysteine Protease Interleukin-1 β -Converting Enzyme: A(p20/p10) ₂ Homodimer," <i>Cell</i> 78: 343-352, 1994.
FG	Wang et al., "Ich-1, an Icl/ced-3-Related Gene, Encodes Both Positive and Negative Regulators of Programmed Cell Death," <i>Cell</i> 78: 739-750, 1994.
FH	Williams and Smith, "Molecular Regulation of Apoptosis: Genetic Controls on Cell Death," <i>Cell</i> 74: 777-779, 1993.
FI	Wilm et al., "Femtomole sequencing of proteins from polyacrylamide gels by nano-electrospray mass spectrometry," <i>Nature</i> 379: 466-469, 1996.
FJ	Wilson et al., "Structure and mechanism of interleukin-1 β converting enzyme," <i>Nature</i> 370: 270-275, 1994.
FK	Yuan et al., "The C. elegans Cell Death Gene <i>ced-3</i> Encodes a Protein Similar to Mammalian Interleukin-1 β -Converting Enzyme," <i>Cell</i> 75: 641-652, 1993.
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